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4401 Great America Parkway
Santa Clara, CA 95054

Release Notes for the Business Policy Switch 2000 DC

NORTEL NETWORKS™

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Introduction

These release notes contain important information about Nortel Networks Business Policy Switch 2000 DC™ software and operational issues not included in the following related guides:

- *Installing the Business Policy Switch 2000* (part number 209319-A)
- *Getting Started with the Business Policy Switch 2000* (part number 209321-A)
- *Using the Business Policy Switch 2000* (part number 208700-A)
- *Using Web-Based Management for the Business Policy Switch 2000* (part number 209570-A)
- *Reference for the Business Policy Switch 2000 Management Software Operations* (part number 209321-A)
- *Release Notes for the Business Policy Switch 2000* (part number 209320-A)

Note: Go to the nortelnetworks.com URL and select Customer Support and Documentation, then locate the Business Policy Switch 2000 section for the most recent product information.

Use Adobe Acrobat Reader to open the manuals and release notes, search for the sections you need, and print them on most standard printers. Go to Adobe Systems at www.adobe.com to download a free copy of Acrobat Reader.

These release notes contain the following sections:

- "Business Policy Switch 2000 DC" next
- "Installing the Business Policy Switch 2000 DC" on page 11
  - "Connecting the power cord to the DC connector" on page 11
  - "Grounding the switch" on page 13
  - "Turning on the power breaker" on page 13
- "Business Policy Switch 2000 DC LED display panel" on page 14
- "IGMP Fast JOIN and LEAVE" on page 17

Business Policy Switch 2000 DC

The Business Policy Switch 2000 DC is available with Business Policy Switch 2000™ Version 1.1.

The features of Business Policy Switch 2000 DC are identical to those of the Business Policy Switch 2000 except for power requirements and redundancy.

Feature

A 100 Watt DC-DC Converter, housed inside the Business Policy Switch 2000 DC, provides power for the switch. It converts -48 Volts DC power to the voltage levels required by switch components.

Business Policy Switch 2000 DC power supply specifications

Table 1 lists the Business Policy Switch 2000 DC power supply specifications.

Table 1 Business Policy Switch 2000 DC power supply specifications

Item	Specification
Input power	maximum 130 Watts
Operating temperature	from 0 to +55 degrees Celsius
Maximum input current rating	-48 Volts DC at 2.75 Amps
Input voltage	-48 Volts DC
Output voltage	+5.0 Volts, +3.3 Volts, +2.5 Volts
Output power	maximum 100 Watts (continuous)

Installing the Business Policy Switch 2000 DC

This section describes installing the Nortel Networks Business Policy Switch 2000 DC.

Caution: The DC power input source for the Business Policy Switch 2000 DC power supply must be restricted to an output that is limited to Safety Extra Low Voltage (SELV) output per IEC950 Definition. This input power source must be reliably connected to ground and electrically isolated from the AC source.

For branch circuit over-current protection for the DC source, please check your national code requirements. For U.S. installations, follow NEC article 422-28(e) and 422-30.

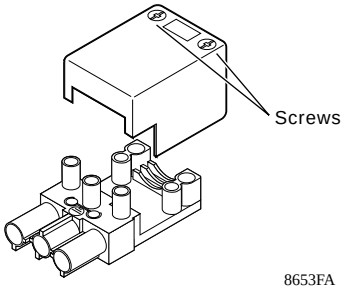
Note: Nortel Networks does not supply the cables for connecting the Business Policy Switch 2000 DC power supply to the DC input source. You should select a cable that complies with the electrical code of the country where you intend to use the DC power supply. The DC connector to the power supply is supplied.

Connecting the power cord to the DC connector

To connect the power cord to the DC connector:

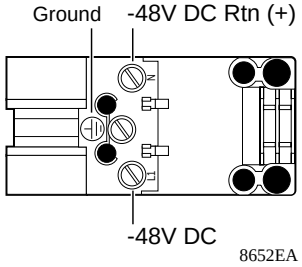
1. Select a 12-gauge, 3-conductor cable, such as an SOW-A, Type 90C, that accommodates DC input and frame ground.
2. Strip the outer cable jacket to expose the insulated conductor cables inside.
3. Strip the insulated conductor cables to 0.2755 inch (7 mm) from the end.
4. Use a screwdriver to loosen and remove the screws on the top of the connector cover (part number 203070-A), and remove the cover (Figure 1).

Figure 1 Removing the connector cover



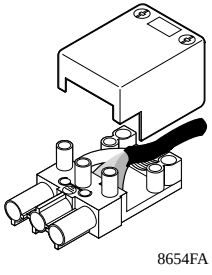
5 Feed the cable ends into the connector and connect the wires with the positive conductor on the top, the chassis ground in the center, and the negative conductor on the bottom (Figure 2).

Figure 2 Feeding cable ends into the connector



6 Replace the connector cover, taking care that the cable sits in the groove in the connector case, and secure with two screws (Figure 3).

Figure 3 Replacing the connector cover



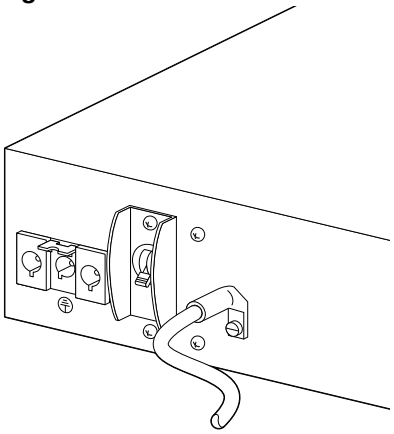
Grounding the switch

Before turning on power to the switch, Nortel Networks recommends that you use the ground stud on the switch as a system ground. See (Figure 4) in “Turning on the power breaker”.

Turning on the power breaker

After all other modules have been installed in the chassis, you can turn on the power breaker (Figure 4).

Figure 4 Power breaker



Business Policy Switch 2000 DC LED display panel

Figure 5 shows the Business Policy Switch 2000 DC LED display panel.

Figure 5 Business Policy Switch 2000 DC LED display panel

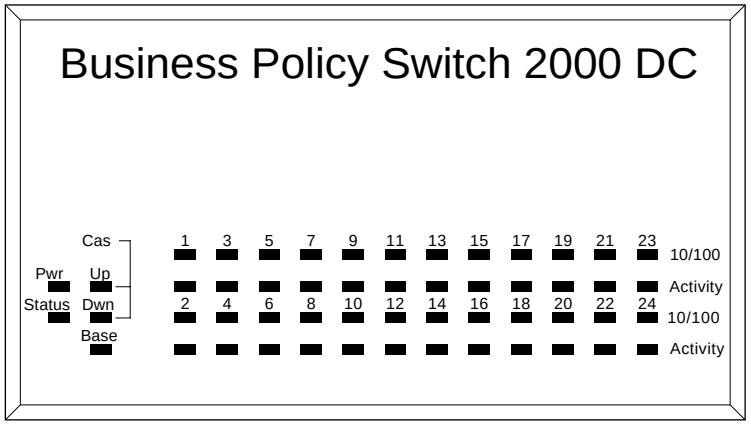


Table 1 describes the Business Policy Switch 2000 DC LEDs.

Table 2 Business Policy Switch 2000 DC LEDs

Label	Type	Color	State	Meaning
Pwr	Power status	Green	On	DC power is available to the switch's internal circuitry.
			Off	There is no power to the switch or the power supply failed.
Status	System status	Green	On	Self-test passed successfully and switch is operational.
			Blinking	A nonfatal error occurred during the self-test.
			Off	The switch failed the self-test.
Cas Up	Stack mode		Off	The switch is in standalone mode.

Table 2 Business Policy Switch 2000 DC LEDs (continued)

Label	Type	Color	State	Meaning
		Green	On	The switch is connected to the *upstream* unit's Cascade A In connector.
		Amber	On	This unit has detected a problem with the switch connected to the cascade up connector. In order to maintain the integrity of the stack, this unit has bypassed its upstream neighbor and has wrapped the stack backplane onto an alternate path.
		Amber or Green	Blinking	The software revision is incompatible software revision or is unable to obtain a unit ID because the Renumber Stack Unit table is full. The unit is on the ring but cannot participate in the stack configuration.
Cas Dwn	Stack mode		Off	The switch is in standalone mode.
		Green	On	The switch is connected to the *downstream* unit's Cascade A Out connector.
		Amber	On	This unit has detected a problem with the switch connected to the cascade down connector. In order to maintain the integrity of the stack, this unit has bypassed its downstream neighbor and has wrapped the stack backplane onto an alternate path.
		Amber or Green	Blinking	The software revision is incompatible software revision or is unable to obtain a unit ID because the Renumber Stack Unit table is full. The unit is on the ring but cannot participate in the stack configuration.

Table 2 Business Policy Switch 2000 DC LEDs (continued)

Label	Type	Color	State	Meaning
Base	Base mode	Green	On	The switch is configured as the stack base unit.
			Off	The switch is *not* configured as the stack base unit (or is in standalone mode).
			Blinking	Stack configuration error: indicates that *multiple* base units or *no* base units are configured in the stack.
		Amber	On	This unit is operating as the stack configuration's *temporary base unit*. This condition occurs automatically if the base unit (directly downstream from this unit) fails. If this happens, the following events take place: • The two units directly upstream and directly downstream from the failed unit automatically wrap their cascade connectors and indicate this condition by lighting their Cas Up and Cas Dwn LEDs (see Cas Up and Cas Dwn description in this table). • If the temporary base unit fails, the next unit directly downstream from this unit becomes the new temporary base unit. This process can continue until there are only two units left in the stack configuration. This automatic failover is a temporary safeguard only. If the stack configuration loses power, the temporary base unit will not power up as the base unit when power is restored. For this reason, you should always assign the temporary base unit as the base unit (set the Unit Select switch to Base) until the failed unit is repaired or replaced.
10/100	10/100 Mb/s port speed indicator	Green	On	The corresponding port is set to operate at 100 Mb/s, and the link is good.
		Green	Blinking	The corresponding port has been disabled by software.
		Amber	On	The corresponding port is set to operate at 10 Mb/s, and the link is good.
		Amber	Blinking	The corresponding port has been disabled by software.
			Off	The link connection is bad, or there is no connection to this port.
Activity	Port activity	Green	Blinking	Indicates network activity for the corresponding port. A high level of network activity can cause the LEDs to appear to be on continuously.

IGMP Fast JOIN and LEAVE

Note: The software for the Business Policy Switch 2000 DC is identical to the software for the Business Policy Switch 2000. Business Policy Switch 2000 DC will show Business Policy Switch 2000 as the product name in all applications software.

Note: The Fast JOIN and LEAVE feature for IGMP is available *only* when the operational mode for the Business Policy Switch 2000 is set to BPS 2000. If the operational mode is set to hybrid (or mixed) mode, the Fast JOIN and LEAVE feature is not available. To set the operational mode, refer to *Using the Business Policy Switch 2000* and *Using Web-based Management for the Business Policy Switch 2000*.

When enabled, the Fast JOIN and LEAVE feature adds the following functionality to IGMP:

- When the Business Policy Switch 2000 receives the first report of a multicast IP group, the switch does *not* flood the traffic addressed to that group for the first 10 seconds. The switch begins pruning traffic within 100 milliseconds.
- When the switch receives the LEAVE message, the switch prunes that port, sending the LEAVE message within 100 milliseconds.

When Fast JOIN and LEAVE is enabled, the user can have only *one* host per Business Policy Switch 2000 port for the uninterrupted multicast stream. If you have more than one host connected to a single port (for example, another switch), receiving the same multicast stream and one host sends a LEAVE message, the multicast stream will stop flowing to all of the hosts associated with that port. Other hosts must send a new IGMP report to begin receiving the multicast stream again.

Note: You cannot enable *both* Fast JOIN and LEAVE *and* Robust Value. When you enable the Fast JOIN and LEAVE value, the Robust Value *always* remains at the default value of 2, although the displayed value is 0.

Configuring with the console interface (CI)

To enable Fast JOIN and LEAVE using the CI menus:

1. Check that the operational mode is BPS 2000.
   a. Choose Switch Configuration Menu from the Main Menu.
   b. Choose Stack Operational Mode.
   c. Ensure that the Current Operational Mode reads Pure BPS 2000 (not Hybrid).
2. Choose IGMP Configuration (or press g) from the Switch Configuration Menu screen.

   The IGMP Configuration screen opens (Figure 6).

Figure 6 IGMP Configuration screen

```
                              IGMP Configuration

                        VLAN:                [    1 ]
                        Snooping:            [ Enabled  ]
                        Proxy:               [ Enabled  ]
                        Robust Value:        [ 2 ]
                        Query Time:          [ 125 seconds ]
                        Set Router Ports:    [ Version 1 ]

                          Static Router Ports
             1-6         7-12       13-18       19-24
           ------      ------     ------      ------
 Unit #1   ------      -X----     -X----      ------
 Unit #2   -X---X      ------     ------      ------



KEY: X = IGMP Port Member (and VLAN Member), - = Not an IGMP Member
Use space bar to display choices, press <Return> or <Enter> to select
choice.  Press Ctrl-R to return to previous menu.  Press Ctrl-C to
return to Main Menu.
```

3. In the Robust Value field, enter `0`.
4. Press Ctrl-C to return to the Main Menu.

To disable Fast JOIN and LEAVE using the console menus:

1. Choose Switch Configuration from the Main Menu, and choose IGMP Configuration (or press g) from the Switch Configuration Menu screen.
2. In the Robust Value field, enter `2` (default value) or the number you want to specify in the field.
3. Press Ctrl-C to return to the Main Menu.

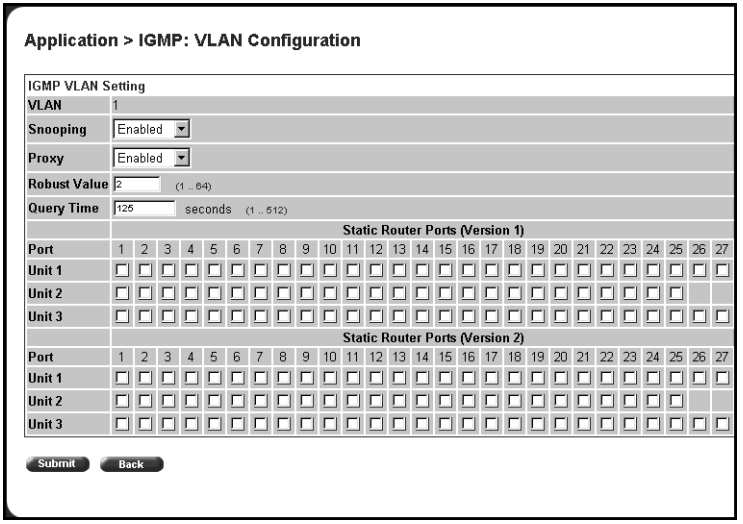
Configuring with the Web-based management system

To enable Fast JOIN and LEAVE using the Web-based management interface:

1. Check that the operational mode is BPS 2000.
   a. Choose Configuration > Stack Operational Mode from the Main Menu.
   b. Ensure that the Current Stack Operational Mode displays Pure BPS 2000 Stack (not Hybrid).
2. Choose Application > IGMP > IGMP VLAN Configuration from the Main Menu.
3. Click the Action tab.

   The IGMP: VLAN Configuration page opens (Figure 7).

Figure 7 IGMP: VLAN Configuration page


Application > IGMP: VLAN Configuration
IGMP VLAN Setting
VLAN 1
Snooping Enabled
Proxy Enabled
Robust Value 2 (1 .. 64)
Query Time 125 seconds (1 .. 512)
Static Router Ports (Version 1)
Port 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Unit 1
Unit 2
Unit 3
Static Router Ports (Version 2)
Port 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Unit 1
Unit 2
Unit 3
Submit
Back

4 In the Robust Value field, enter `0`.

5 Click Submit.

To disable Fast JOIN and LEAVE using the Web-based management system:

1 Choose Application > IGMP > IGMP VLAN Configuration from the Main Menu.

2 In the Robust Value field, enter 2 (default value) or the number you want to specify.

3 Click Submit.